

* SEEDS Technology Infusion

Process and Plans - Key Findings

Third SEEDS Public Workshop

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- **Technology and Reuse**

- Technology encompasses significant new advance over current practice (can be software, hardware, methods)
- Reuse involves proven operational system (may be of varying levels of maturity) transferred to another domain/application/mission
- Technology Infusion addresses the processes to off-set risk of first use
 - Maturation
 - Early adaptors
 - Incentives

- ESE Strategic Goals
- ESE Vision, SEEDS Capabilities Vision
- Needs (capabilities, technology drivers)
- Technology development (inputs to tech dev programs)
- Gap analysis (determination of priority, timeline)
- Technology infusion
- Match-making
- Maturation
- Use
- Improvements/ evolving needs

- Different strategies for different technology scope (wide to narrow use). Consider scope of infusion and tailor infusion processes (not one-size fits all)
 - Significant common components (standards-based) affecting large/diverse user communities (shared infrastructure components & subsystems/ large scale need/ many users/ significant impact)
 - Specific to a large/focused ESE community (eg large scale computing)
 - Specific to a particular small/cohesive ESE community (eg MODIS tools)

- Technology Infusion Working Group
- Purpose: Enable infusion of technologies into ESE systems in such a way as to ensure measurable, highly-innovative, cost-effective technology evolution (thus enabling NASA's ESE strategic goals). This is accomplished through:
 - Facilitating communicating between providers & consumers
 - Facilitating policy adherence
 - ...
 - Identifying & defining technology infusion processes
 - Mapping Tech infusion strategies to ESE vision & strategies
 - Defining technology needs & gaps
 - ...
 - Establishing incentives
 - Establishing metrics
 - ...

- Utilizes & extends current AIST processes for SEEDS

